

The Utah Immunization Rule for Students (R396-100) requires students entering kindergarten to have received the following immunizations: 5 DTaP, 4 Polio, 2 MMR, 3 Hepatitis B, 2 Hepatitis A, 1 Varicella. Every school in Utah that enrolls kindergarten students reports the number of students who meet the requirement through an online system each year. The CDC asked the Utah Immunization Program (UIP) to validate the results of the annual electronic report. The April 30, 2008 electronic report indicated that 83.9% of students entering kindergarten met school requirements, 2.9% of students' parents requested an exemption, and 0.9% of students' records were missing.

There were 623 elementary schools in Utah during the 2007-2008 school year, and it would be too expensive and time consuming to visit all schools within the state to validate the electronic report. A Probability Proportional to Size sampling technique was used to ensure that each student had equal opportunity to be included in the study. Thirty-seven schools within Weber, Davis, Salt Lake, and Utah Counties (Wasatch Front), and 13 schools within the remaining Utah counties (non-Wasatch Front) were sampled. A total of 1,403 students were included in the sample. Audits were conducted by UIP staff. When UIP staff arrived at a school, they examined and recorded vaccines received by the students. Student records were either obtained from the Utah School Immunization Record (Pink Card) or a vaccine history printed by a student's physician. The student record was counted as missing if neither was available.

Results from this audit indicate that there is an overreporting of students who meet school requirements. Additional audits will be completed in the spring of 2009 to confirm or refute this finding. There was no statistically significant difference between coverage in Wasatch and non-Wasatch Front counties. This most common missing vaccine series was Hepatitis A.

Students Who Met School Rule Requirement			
Category	Validation Finding	Validation 95% Confidence Interval	Electronic Report Finding
Met School Requirement	79.90%	77.76%, 82.04%	83.92%
Exemption Requested	2.9%	2.0%, 3.8%	2.93%
Missing Record	1.2%	0.6%, 1.8%	0.94%

Wasatch vs. Non-Wasatch Front Schools		
Geographic Location	Percent Meeting School Rule	95% Confidence Interval
Wasatch Front	80.7%	78.3%, 83.1%
Non-Wasatch Front	77.5%	73.2%, 81.1%

Missing Vaccine Series						
Single Series Incomplete						
	DTaP	Polio	MMR	Hep B	Varicella	Hep A
Number	9	5	5	5	1	132
Percent	5.7%	3.2%	3.2%	3.2%	0.6%	84.1%
Combination of Series Incomplete						
	DTaP	Polio	MMR	Hep B	Varicella	Hep A
Number	50	43	45	19	7	48
Percent	74.6%	64.2%	67.2%	28.4%	10.4%	71.6%